

# Multi Layer Ceramic Chip Antenna

## 3216 (1206) Size

**multicomp** PRO



### Features

- Surface Mounted Devices with a small dimension of 3.2mm×1.6mm×1.1mm<sup>3</sup> meet future miniaturization trend.
- LTCC process
- High stability in Temperature / Humidity Change
- Multilayer ceramic antenna (chip antenna)
- Automotive, Qualified to AEC-Q200
- Reel Packaging

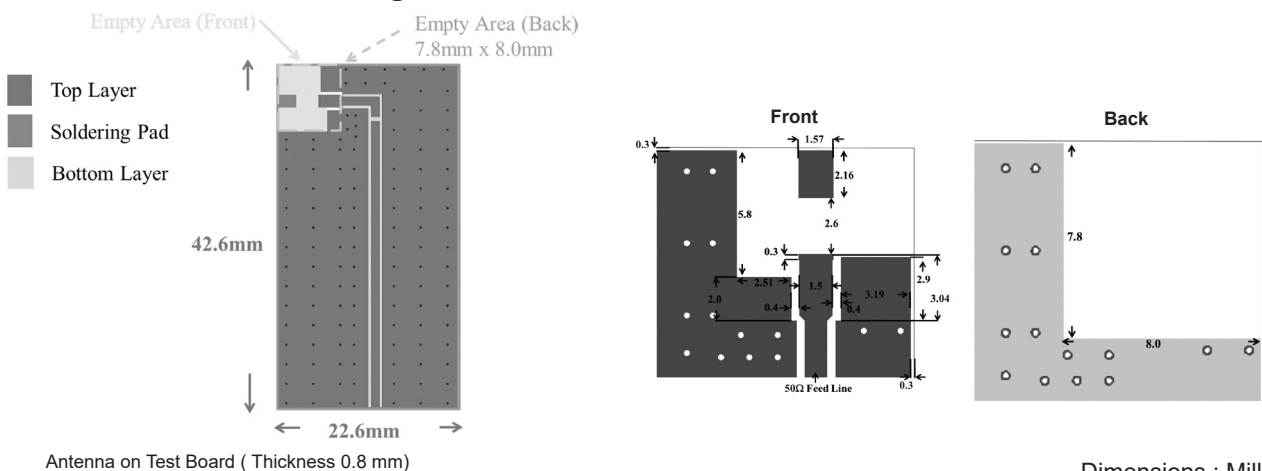
### Application

- 6240 ~ 8500MHz working Frequency

### Electrical Characteristics

|                                     |   |
|-------------------------------------|---|
| Working Frequency Range             | : 6240MHz ~ 8500MHz                               |
| Fc                                  | : 7370MHz   |
| VSWR                                | : 2 max.  |
| Gain                                | : 3 ~ 4.5dBi                                      |
| Efficiency                          | : 70% ~ 80%                                       |
| Power Capacity                      | : 3W max.   |
| Maximum Input Power                 | : 5 Watts for 5 minutes                           |
| Polarization                        | : Linear  |
| Azimuth Beam width                  | : Omni-directional                                |
| Moisture Sensitivity Levels         | : MSL is LEVEL 1 (Refer to : IPC/JEDEC J-STD-020) |
| HBM ESD                             | : Pass 1KV on all pins (Base on AEC-Q200-002)     |
| MM ESD                              | : Pass 200V (Base on EIA/JESD22-A115)             |
| Operation Storage Temperature Range | : -55°C to +125°C                                 |
| Storage Temperature Range           | : +5°C to +40°C                                   |
| Humidity                            | : 30 to 70% relative humidity                     |

### Solder Land Pattern Design



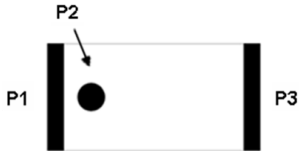
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## Construction

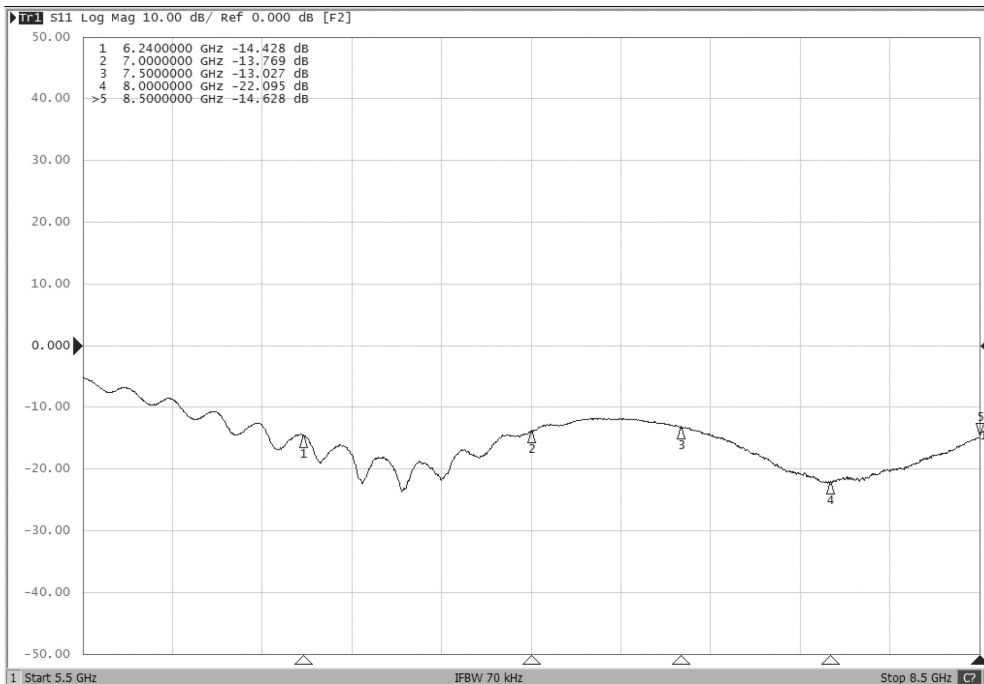


| PIN | Connection          |
|-----|---------------------|
| P1  | Feeding             |
| P2  | Identification Mark |
| P3  | Soldering terminal  |

## Dimensions

| Symbol | Dimension (mm) |
|--------|----------------|
| L      | 3.2 ±0.2       |
| W      | 1.6 ±0.1       |
| T      | 1.1 ±0.1       |
| A      | 0.25 ±0.15     |

## Antenna S11 on Test Board



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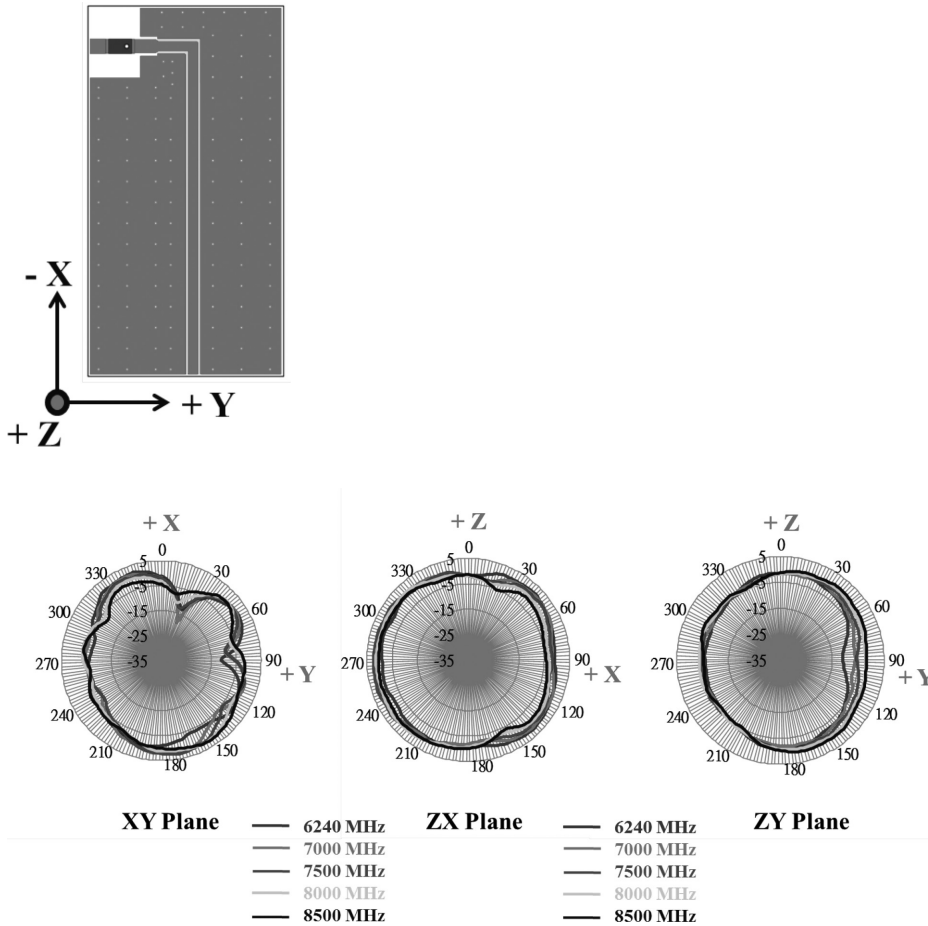


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## Radiation Pattern

Radiation Pattern and Gain were dependent on measurement board design. The specification of AMANT3216110Y1 Antenna was measured based on the PCB size and installation position as shown in the below figure Test Board.



## Part Number Table

| Description                                 | Part Number     |
|---|-----------------|
| Ceramic Chip Antenna, 3216, 7.37GHz, 2 VSWR | AMANT3216110Y1T |

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